

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

- 1-34. (Canceled)
35. (new) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
- (a) a protein whose amino acid sequence consists of amino acid residues -21 to 69 of SEQ ID NO:2;
 - (b) a protein whose amino acid sequence consists of amino acid residues 1 to 69 of SEQ ID NO:2;
 - (c) a protein whose amino acid sequence consists of a portion of SEQ ID NO:2, wherein said portion is at least 30 contiguous amino acid residues in length; and
 - (d) a protein whose amino acid sequence consists of a portion of SEQ ID NO:2, wherein said portion is at least 50 contiguous amino acid residues in length.
36. (new) The antibody or fragment thereof of claim 35 that specifically binds protein (a).
37. (new) The antibody or fragment thereof of claim 35 that specifically binds protein (b).
38. (new) The antibody or fragment thereof of claim 35 that specifically binds protein (c).
39. (new) The antibody or fragment thereof of claim 35 that specifically binds protein (d).
40. (new) The antibody or fragment thereof of claim 36 that specifically binds protein (c).
41. (new) The antibody or fragment thereof of claim 37 wherein said protein bound by said antibody or fragment thereof is glycosylated.

42. (new) The antibody or fragment thereof of claim 37 wherein said antibody or fragment thereof is human.
43. (new) The antibody or fragment thereof of claim 37 wherein said antibody or fragment thereof is monoclonal.
44. (new) The antibody or fragment thereof of claim 37 which is selected from the group consisting of:
 - (a) a chimeric antibody or fragment thereof;
 - (b) a humanized antibody or fragment thereof;
 - (c) a polyclonal antibody;
 - (d) a single chain antibody; and
 - (e) a Fab fragment.
45. (new) The antibody or fragment thereof of claim 37 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot or an ELISA.
46. (new) An isolated cell that produces the antibody or fragment thereof of claim 37.
47. (new) A hybridoma that produces the antibody or fragment thereof of claim 37.
48. (new) A method of detecting hESF I protein in a biological sample comprising:
 - (a) contacting the biological sample with the antibody or fragment thereof of claim 37; and
 - (b) detecting the hESF I protein in the biological sample.
49. An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
 - (a) a protein whose amino acid sequence consists of the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 97401;
 - (b) a protein whose amino acid sequence consists of the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97401;

- (c) a protein whose amino acid sequence consists of the amino acid sequence of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97401, wherein said portion is at least 30 contiguous amino acid residues in length; and
 - (d) a protein whose amino acid sequence consists of the amino acid sequence of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97401, wherein said portion is at least 50 contiguous amino acid residues in length.
50. (new) The antibody or fragment thereof of claim 49 that specifically binds protein (a).
51. (new) The antibody or fragment thereof of claim 49 that specifically binds protein (b).
52. (new) The antibody or fragment thereof of claim 49 that specifically binds protein (c).
53. (new) The antibody or fragment thereof of claim 49 that specifically binds protein (d).
54. (new) The antibody or fragment thereof of claim 50 that specifically binds protein (c).
55. (new) The antibody or fragment thereof of claim 51 wherein said protein bound by said antibody or fragment thereof is glycosylated.
56. (new) The antibody or fragment thereof of claim 51 wherein said antibody or fragment thereof is human.
57. (new) The antibody or fragment thereof of claim 51 wherein said antibody or fragment thereof is monoclonal.
58. (new) The antibody or fragment thereof of claim 51 which is selected from the group consisting of:
- (a) a chimeric antibody or fragment thereof;

- (b) a humanized antibody or fragment thereof;
 - (c) a polyclonal antibody;
 - (d) a single chain antibody; and
 - (e) a Fab fragment.
59. (new) The antibody or fragment thereof of claim 51 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot or an ELISA.
60. (new) An isolated cell that produces the antibody or fragment thereof of claim 51.
61. (new) A hybridoma that produces the antibody or fragment thereof of claim 51.
62. (new) A method of detecting hESF I protein in a biological sample comprising:
- (a) contacting the biological sample with the antibody or fragment thereof of claim 51; and
 - (b) detecting the hESF I protein in the biological sample.
63. (new) An isolated antibody or fragment thereof that specifically binds a hESF I protein purified from a cell culture wherein said hESF I protein is encoded by a polynucleotide encoding amino acids -21 to 69 of SEQ ID NO:2.
64. (new) The antibody or fragment thereof of claim 63 wherein said antibody or fragment thereof is human.
65. (new) The antibody or fragment thereof of claim 63 wherein said antibody or fragment thereof is monoclonal.
66. (new) The antibody or fragment thereof of claim 63 which is selected from the group consisting of:
- (a) a chimeric antibody or fragment thereof;
 - (b) a humanized antibody or fragment thereof;
 - (c) a polyclonal antibody;
 - (d) a single chain antibody; and
 - (e) a Fab fragment.

67. (new) The antibody or fragment thereof of claim 63 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot or an ELISA.
68. (new) The antibody or fragment thereof of claim 63 wherein the amino acid sequence of said hESF I protein consists of amino acid residues 1 to 69 of SEQ ID NO:2.